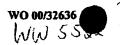
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21. X The following fees are submitted:					CULATIONS P		
	FEE (37 CFR 1.492 (a)						
Neither international preliminary examination fee (37 CFR 1.482)							
nor international search fee (37 CFR 1.445(a (2)) paid to USPTO and International Search Report not prepared by the EPO or JPO\$1000.00							
International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO \$860.00							
International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO\$710.00							
International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4)							
International preliminary examination fee (37 CFR 1.482) paid to USPTO							
and all claims satisfied provisions of PCT Article 33(1)-(4)					0.40.00		
Surcharge of \$130.00 for furnishing the oath or declaration later than 20 30					860.00		
months from the earliest claimed priority date (37 CFR 1.492(e)).					0.00		
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Jptal claims	13 -20 =	0	x \$18.00	\$	0.00		
ledependent claims	1 -3 =	0	x \$80.00	\$	0.00		
MULTIPLE DEPENT	DENT CLAIM(S) (if app		+ \$270.00	\$	0.00 860.00		
TOTAL OF ABOVE CALCULATIONS =  The property of					860.00		
are reduced by 1/2.					0.00		
SUBTOTAL =					860.00		
Processing fee of \$130.00 for furnishing the English translation later than 20 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				s	0.00		
तां TOTAL NATIONAL FEE =				2	860.00		
Free for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be geompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +					40.00		
TOTAL FEES ENCLOSED =					900.00		
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					charged:	\$	
a. A check in the amount of \$ to cover the above fees is enclosed					pst	use mult	iple
a. A check in the amount of \$ to cover the above fees is enclosed.  b. Please charge my Deposit Account No. 13-3848 in the amount of \$ 900.00 to cover the above fees. Of the above fees. Of the above fees.							
c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 13-3848. A duplicate copy of this sheet is enclosed.							
4 <b></b>		-4 WARNING LAG	ania wa ana akta ƙasar sa			1:6	
d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.  NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR							
NOTE: Where an : 1.137 (a) or (b)) m	appropriate time limit u	्रि andeह37 CFR 1.494 or 1 I to Festore the applicati	1.495 has not been miles to pending status	net, a p	etition to reviv	e (37 CFR	
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## PCT/EP99/08779 09/856545 JC18 Rec'd PCT/PTO 2 2 MAY 2001

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## Process for the producti n of low-viscosity water-soluble cellulose ethers.

The technological properties of cellulose ethers are highly dependent on the viscosity of their solutions. Although primarily medium-viscosity cellulose ethers, i.e. those with average molecular weight are processed, high- and low-viscosity cellulose ethers have nevertheless also achieved importance.

Low-viscosity cellulose ethers, which also have a low molecular weight in comparison with medium- and high-viscosity cellulose ethers, can in principle be manufactured in two different ways. Either a low-molecular alkali cellulose is taken as the basis and etherified, or a finished cellulose ether is broken down to the desired molecular weight.

Using a low-molecular alkali cellulose as the basis and producing a cellulose ether by etherification makes the subsequent cleaning process more difficult. The cellulose ether contains a considerable number of short-chain components, which are swollen greatly or washed out by the washing media.

The second possible method mentioned, of breaking down higher-molecular cellulose ethers into low-molecular, low-viscosity cellulose ethers can be achieved by the action of oxidising agents, for example hypochlorite or hydrogen peroxide.

The oxidative decomposition of high-viscosity cellulose ethers can be carried out after the cleaning process. This avoids washing losses and difficulties during the washing process.

The specifications listed below give a summary of the processes currently used to break down high-viscosity cellulose ethers after etherification and washing:

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Onna J. Veatch
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t this paper or fee is being deposited with the United States press Mail Post Office to Addressee" service under 37 CFR dicated above and is addressed to the Assistant Commissioner lemarks, Washington, D.C. 20231

Donna J. Veatch

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